	LX II	
Application No.	Applicant(s)	
10/664,659	MARUYAMA ET AL.	
Examiner	Art Unit	
Thinh T Nguyen	2818	
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y the Examiner.		
of this communication to file a reply MENT of this application.  Initted. Note the attached EXAMINE es reason(s) why the oath or declar at be submitted.  Is be submitted.  Is Amendment / Comment or in the draw the header according to 37 CFR 1.121 and the solution of the distinction of the draw the header according to 37 CFR 1.121 and the distinction of	s national stage application from the solution of complying with the requirements R'S AMENDMENT or NOTICE OF ration is deficient.  D-948) attached  Office action of vings in the front (not the back) of I(d).  must be submitted. Note the	
6.  Interview Summar Paper No./Mail D D8), 7.  Examiner's Amend 8.  Examiner's Staten Other David Nelms Supervisory Patent Examiner	y (PTO-413), ate dment/Comment	
	Examiner Thinh T Nguyen  Paras on the cover sheet with the cover appropriate communication in this at or other appropriate communication is subject and MPEP 1308.  The Examiner  This application is subject and MPEP 1308.  The Examiner  The Examiner  This application is subject and MPEP 1308.  The Examiner  This application is subject and MPEP 1308.  The Examiner  This application is subject and MPEP 1308.  The Examiner  Thinh T Nguyen  Thinh T Nguyen  The Communication is the examiner and in the subject and in the subjec	10/664,659   MARUYAMA ET AL.     Examiner   Art Unit     Thinh T Nguyen   2818     Con REMAINS) CLOSED in this application. If not included or other appropriate communication will be mailed in due course. THE GHTS. This application is subject to withdrawal from issue at the init is and MPEP 1308.  If the Examiner.   The Examiner is and MPEP 1308.

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## DETAILED ACTION

## **Specification**

- 1. The specification has been checked to the extent necessary to determine the presence of all possible minor errors. However, the applicant cooperation is requested in correcting any errors of which the applicant may become aware in the specification.
- 2. Claims 1-2,4-7 are allowed. Since claim1 is allowed and is generic to withdrawn claims 8-12,18; claims 8-12,18 are also allowed in addition to claims 1-2,4-7.

## Reason for allowance

- 3. Claims 1-2,4-12,18 are allowed The following is an examiner's statement of reason for allowance: Claims 1-2,4-12,18 because none of the references of record teaches or suggests the claimed SEMICONDUCTOR LIGHT EMITTING DEVICE HAVING QUANTUM WELL LAYER SANDWICHED BETWEEN CARRIER CONFINEMENT LAYERS having the limitations:
- -- " wherein a composition of the second semiconductor material, a composition of the third semiconductor materials material and a thickness of the quantum well layer are set such that a difference of at least 100 meV exists between an energy level of the

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carrier confinement layers at a conduction band lower end and a ground level of an electron in the quantum well layer; "--

and all other limitations as recited in claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

4. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d) which papers have been placed of record in the file.

## Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Kuroda et al (US patent 4,819,036) disclose a semiconductor device.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thinh T Nguyen whose telephone number is 571-272-1790. The examiner can normally be reached on Monday-Friday 9:00am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached at 571-272-1787. The fax phone numbers for the

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organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Thinh T Nguyen

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David Nelms
Supervisory Patent Examiner
Technology Center 2800